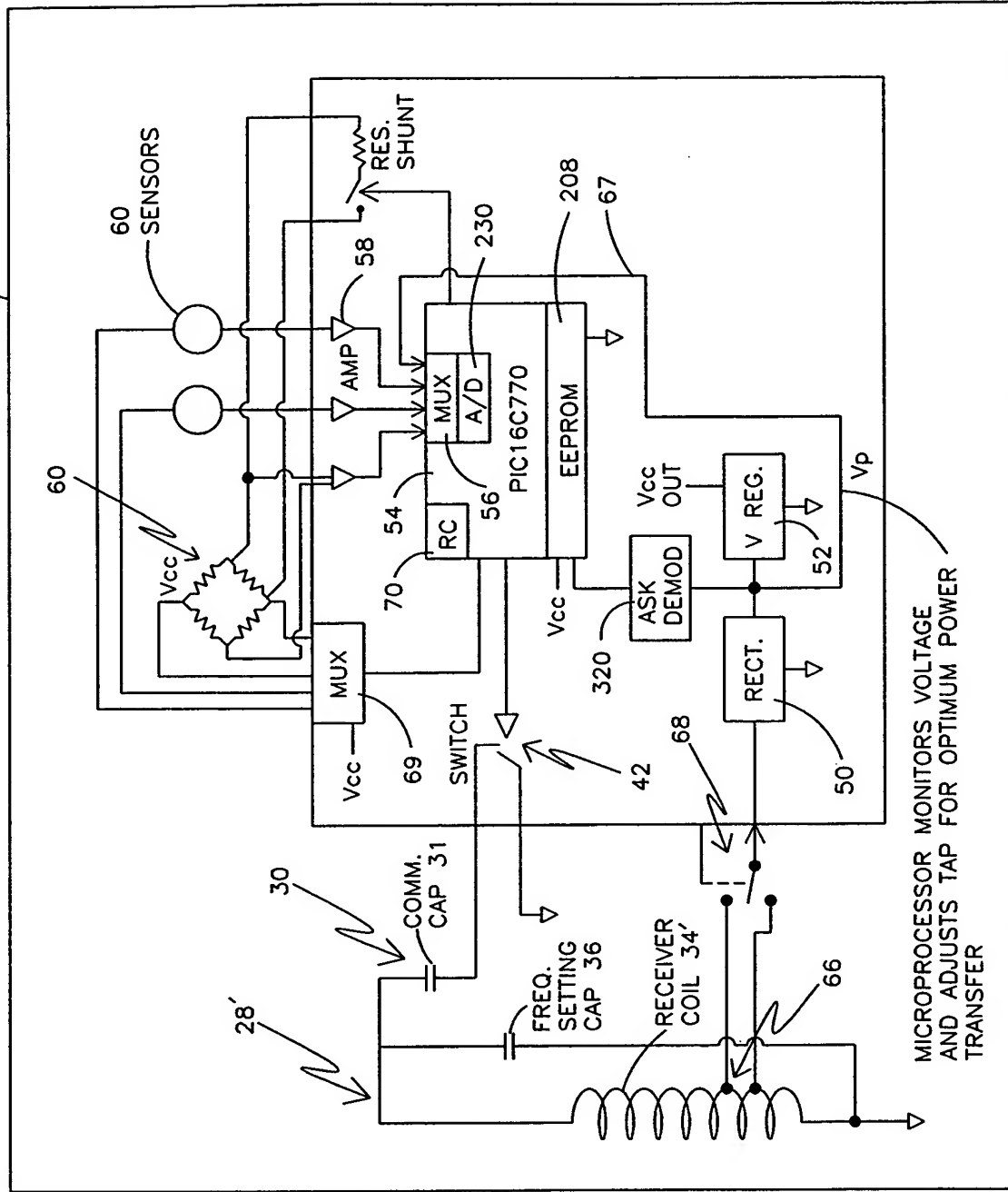


FIG. 1

115-005  
2-29

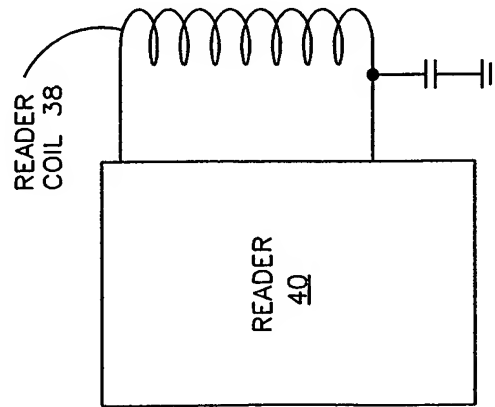
# SENSOR TRANSPONDER



MICROPROCESSOR MONITORS VOLTAGE AND ADJUSTS TAP FOR OPTIMUM POWER TRANSFER

HERMETICALLY SEALED METAL BOX 72

FIG. 2a



# SENSOR TRANSPONDER WITH TRANSMITTER 48b

115-005  
3-29

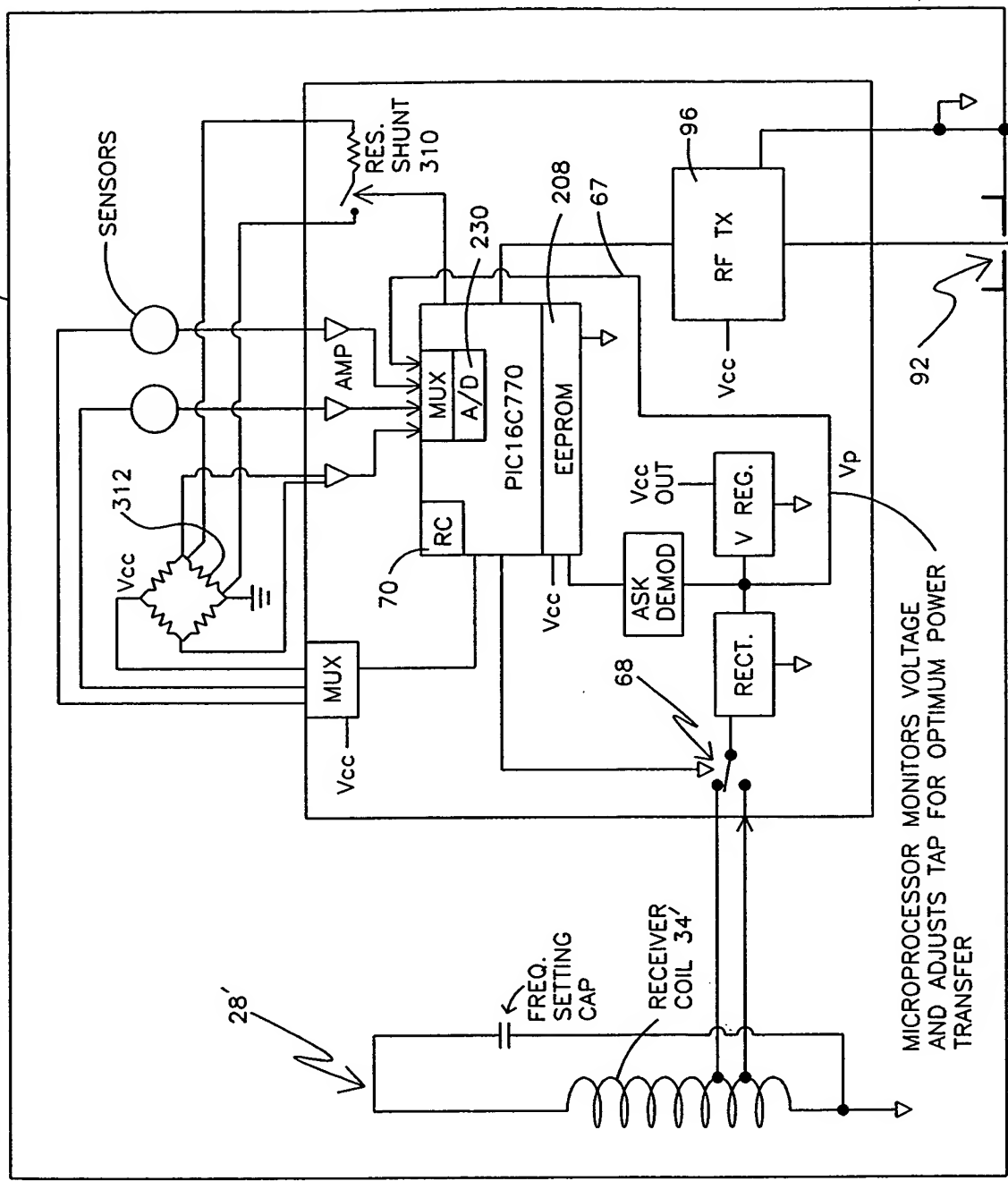
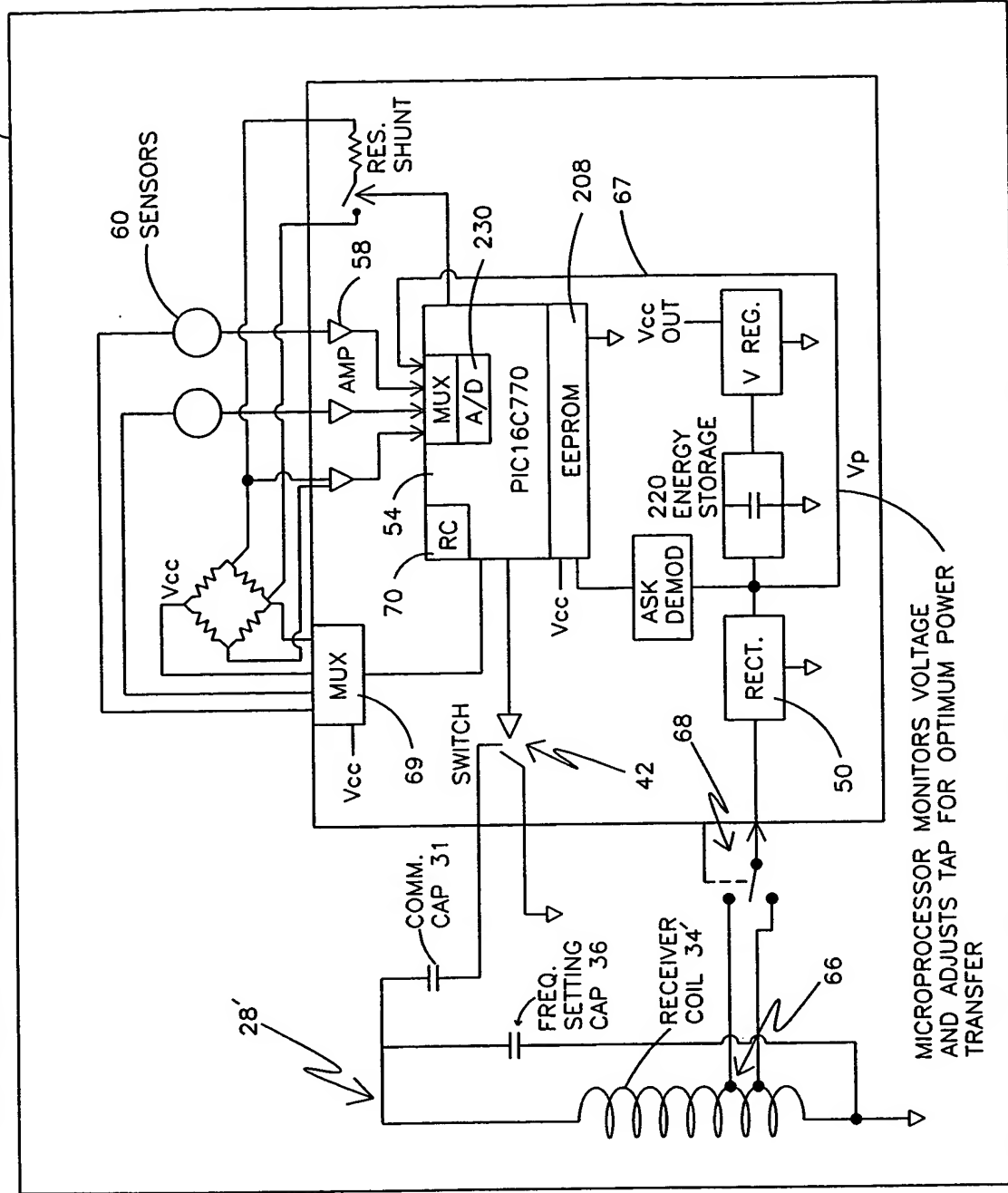


FIG. 2b

# SENSOR TRANSPONDER WITH ENERGY STORAGE

48c



HERMETICALLY SEALED METAL BOX 72

FIG. 2c

115-005  
4-29

115-005

5-29

# CAPACITIVE DIVIDER

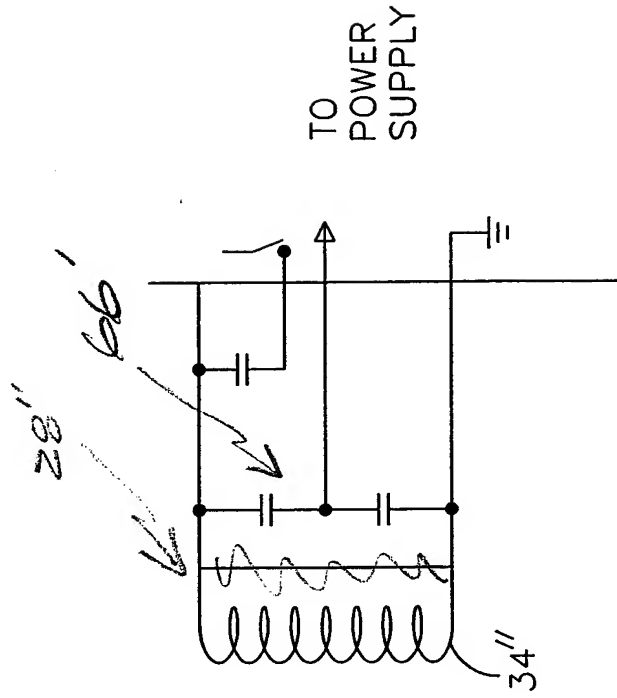


FIG. 2d

# DVRT TRANSPONDER WITH RATIOMETRIC SIGNAL CONDITIONING

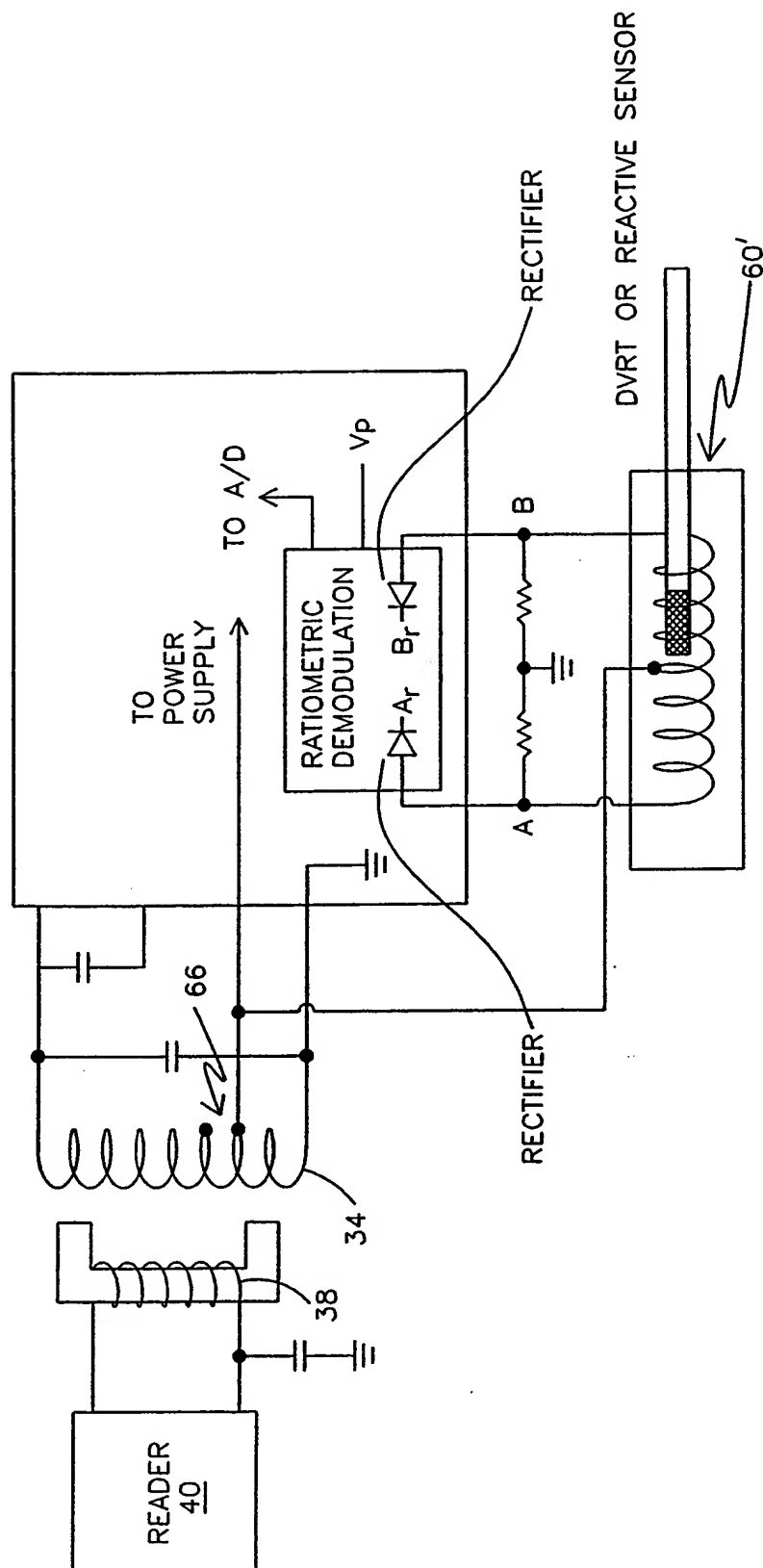


FIG. 3

115-005  
6-29

115-005  
7-29

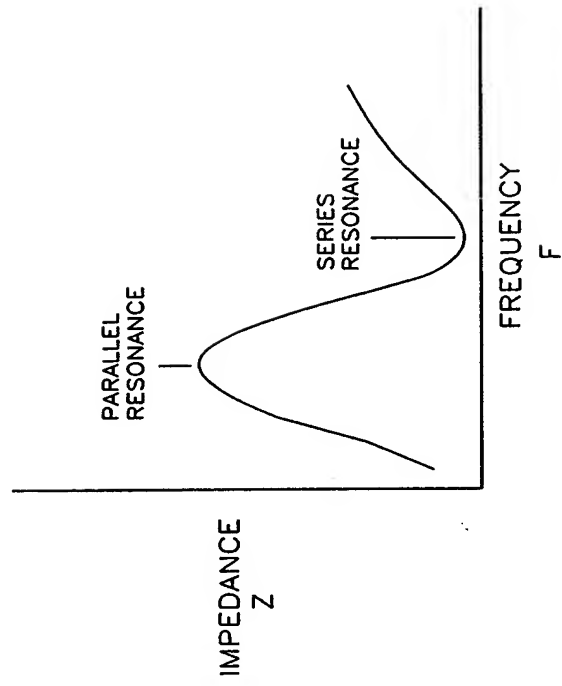


FIG. 4

# EFFECT OF REACTANCE SWITCHING ON IMPEDANCE OF RESONANT TANK CIRCUIT WITH HIGH-Q

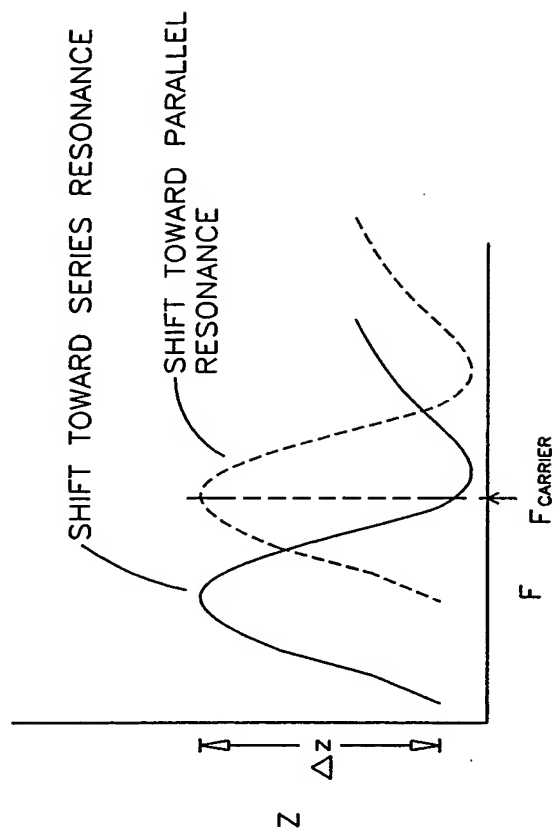


FIG. 5

115-005

8-29



115-005  
9-29

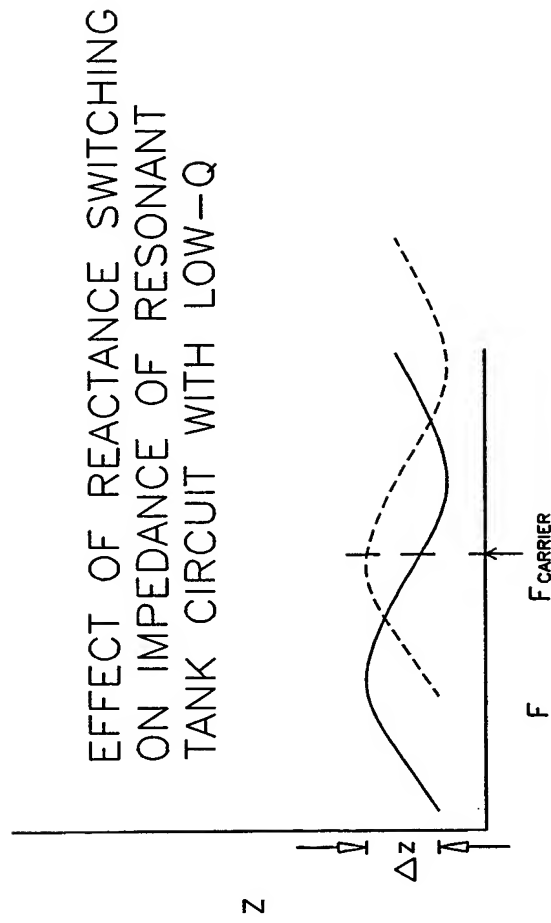


FIG. 6

115-005  
10-29

# JET ENGINE APPLICATION

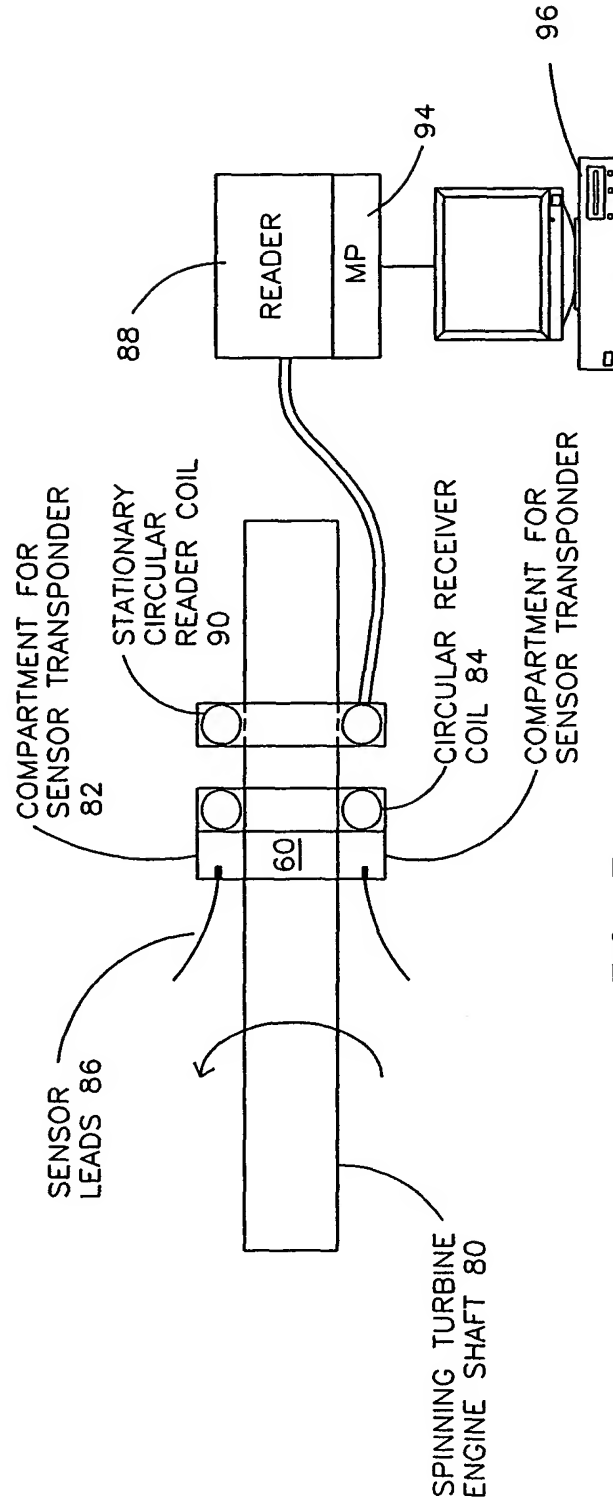


FIG. 7

MULTIPLE ADDRESSABLE TRANSPONDERS

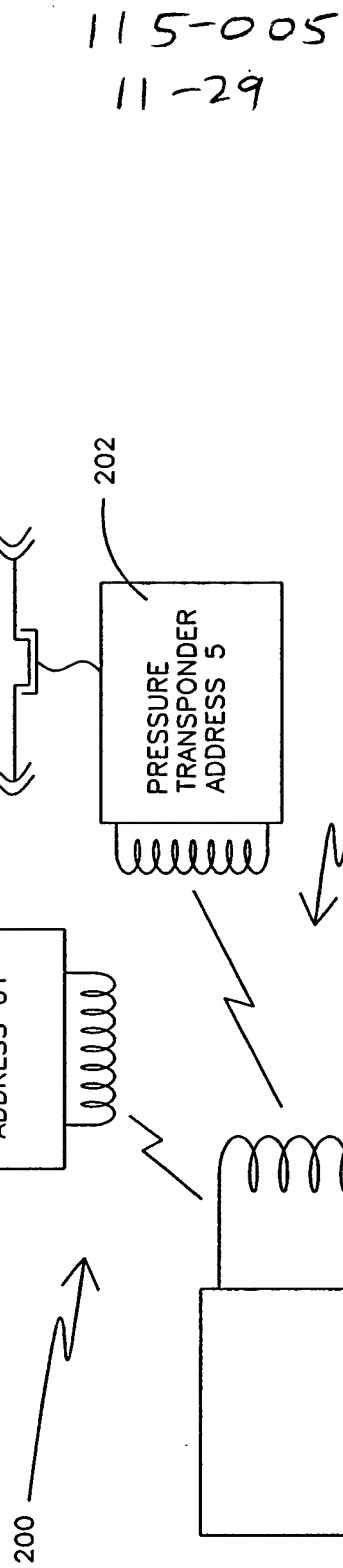


FIG. 8a

115-005

12-29

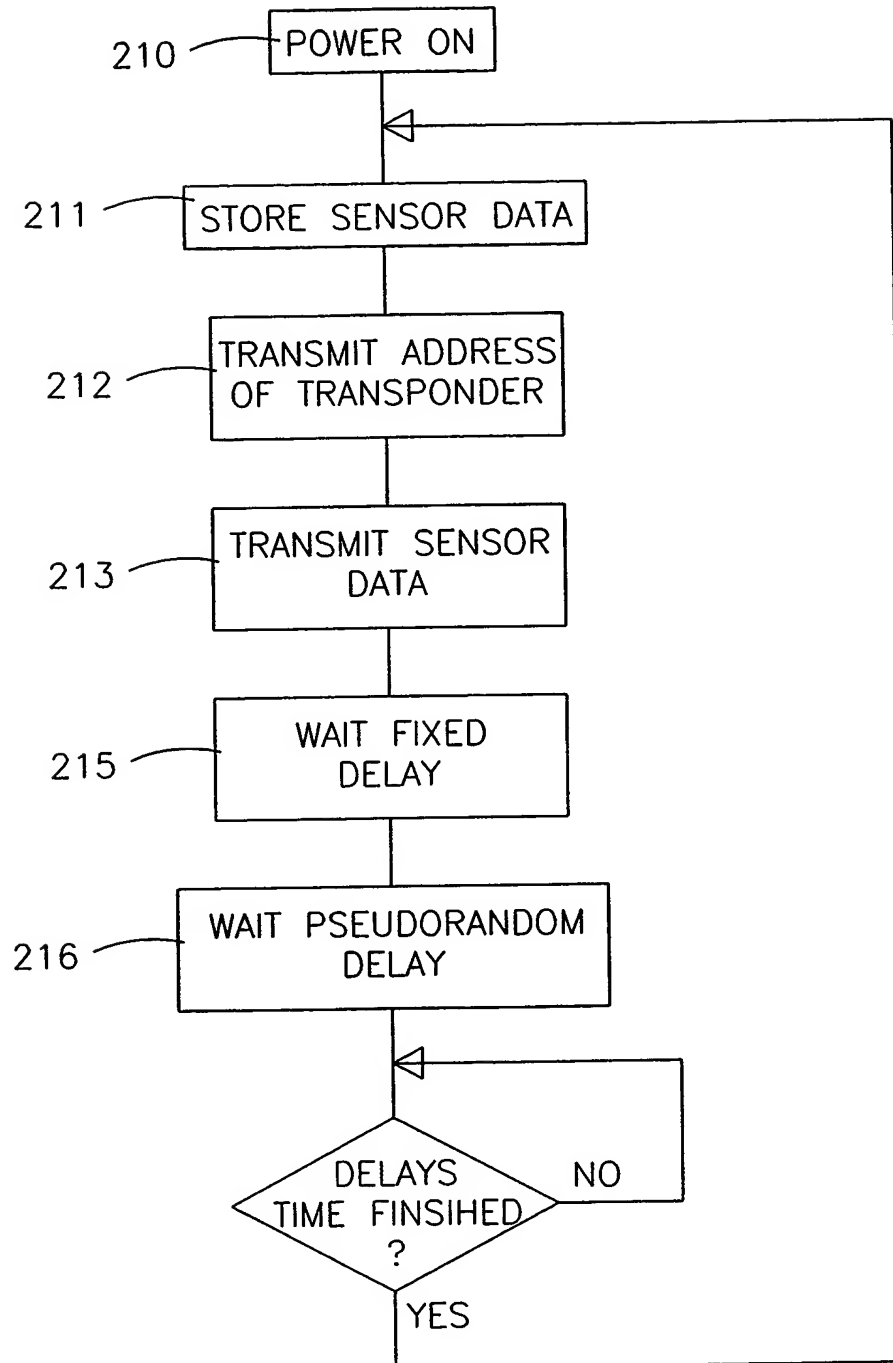


FIG. 8b

# MULTIPLE ADDRESSABLE TRANSPONDERS ON A SINGLE RECEIVER COIL

115-005  
13-29

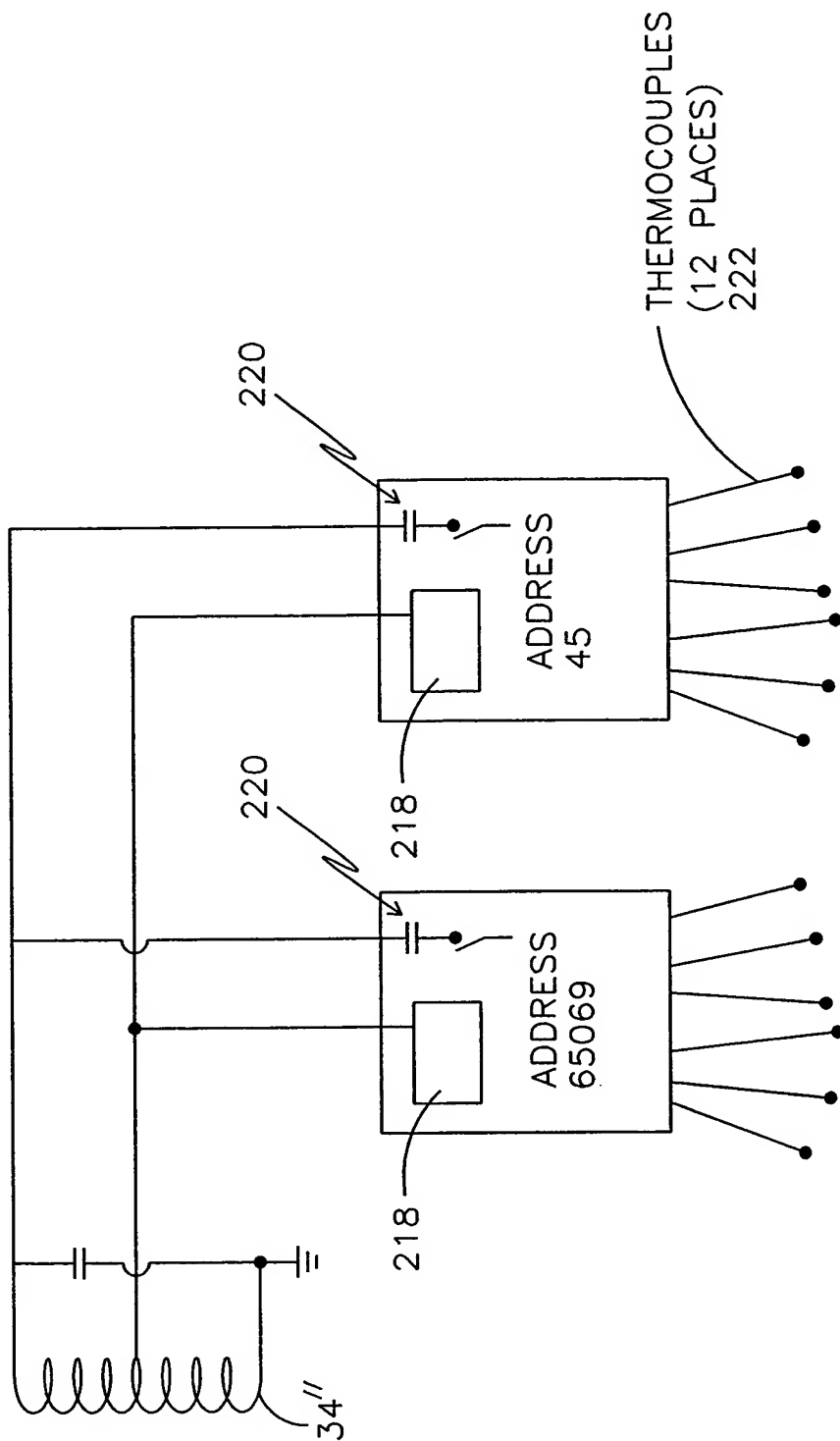
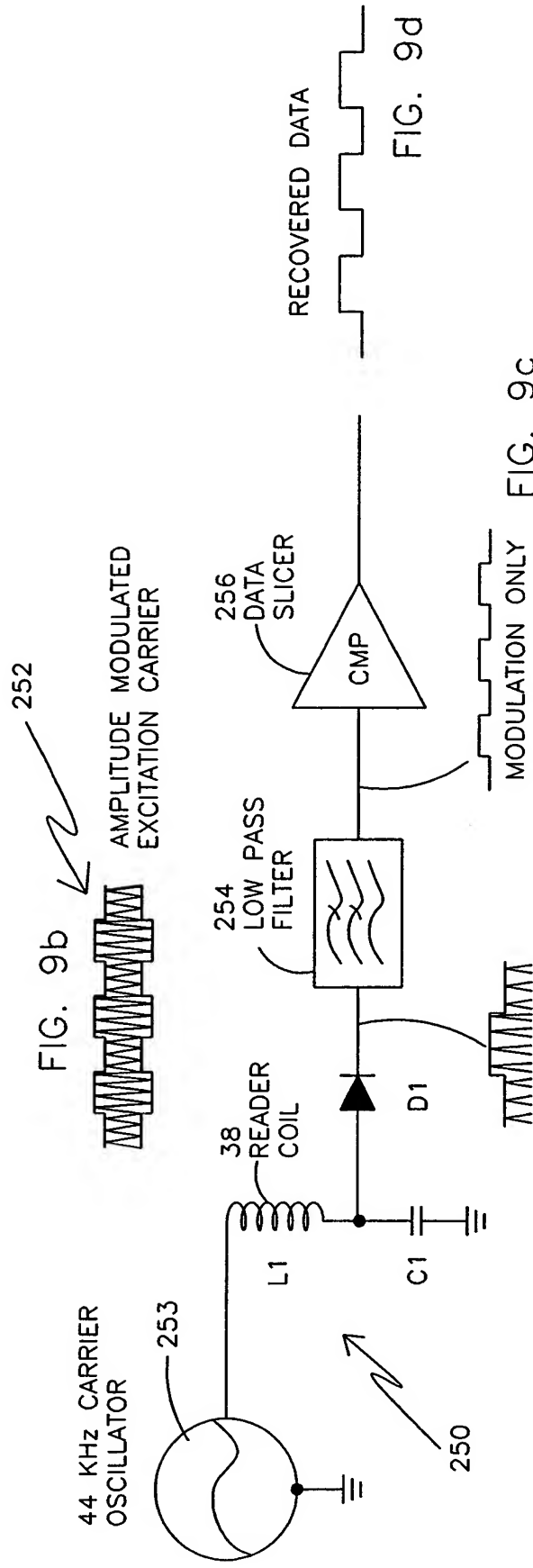


FIG. 8c

# ENVELOPE DEMODULATION



PRIOR ART

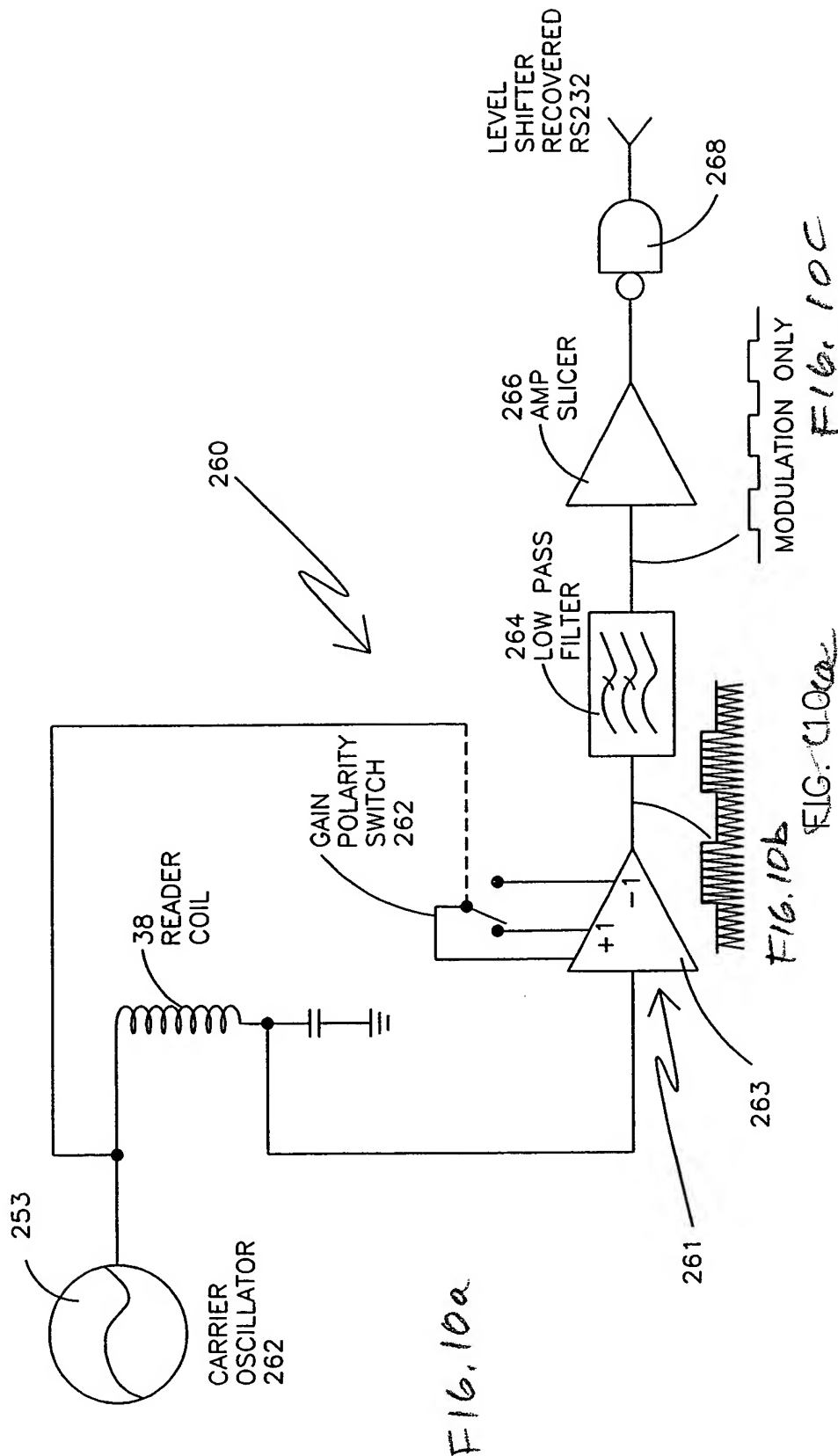
FIG. 9a

115-005  
14-29

115-005

15-29

# SYNCHRONOUS AM DEMODULATION READER



115-005

16-29

# IMPEDANCE BRIDGE DEMODULATION

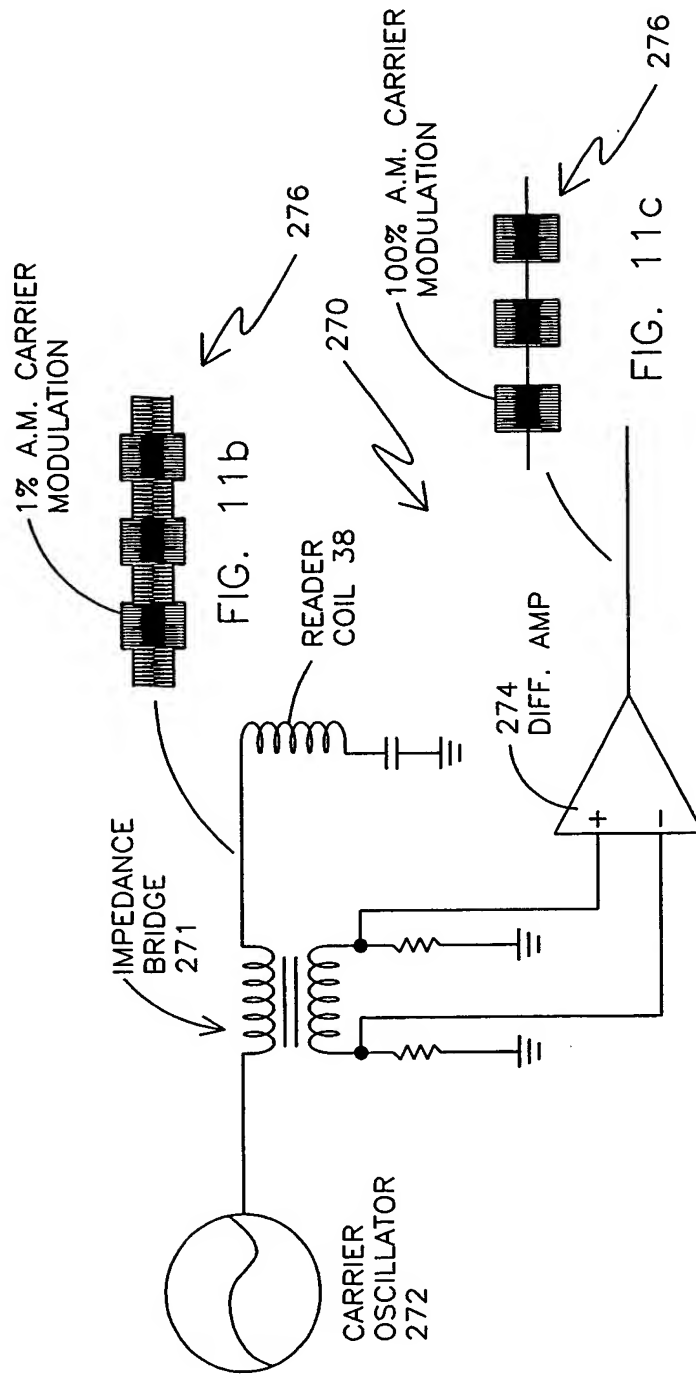


FIG. 11a



115-005  
17-29

# SYNCHRONOUS AM DEMODULATION READER USING AD698

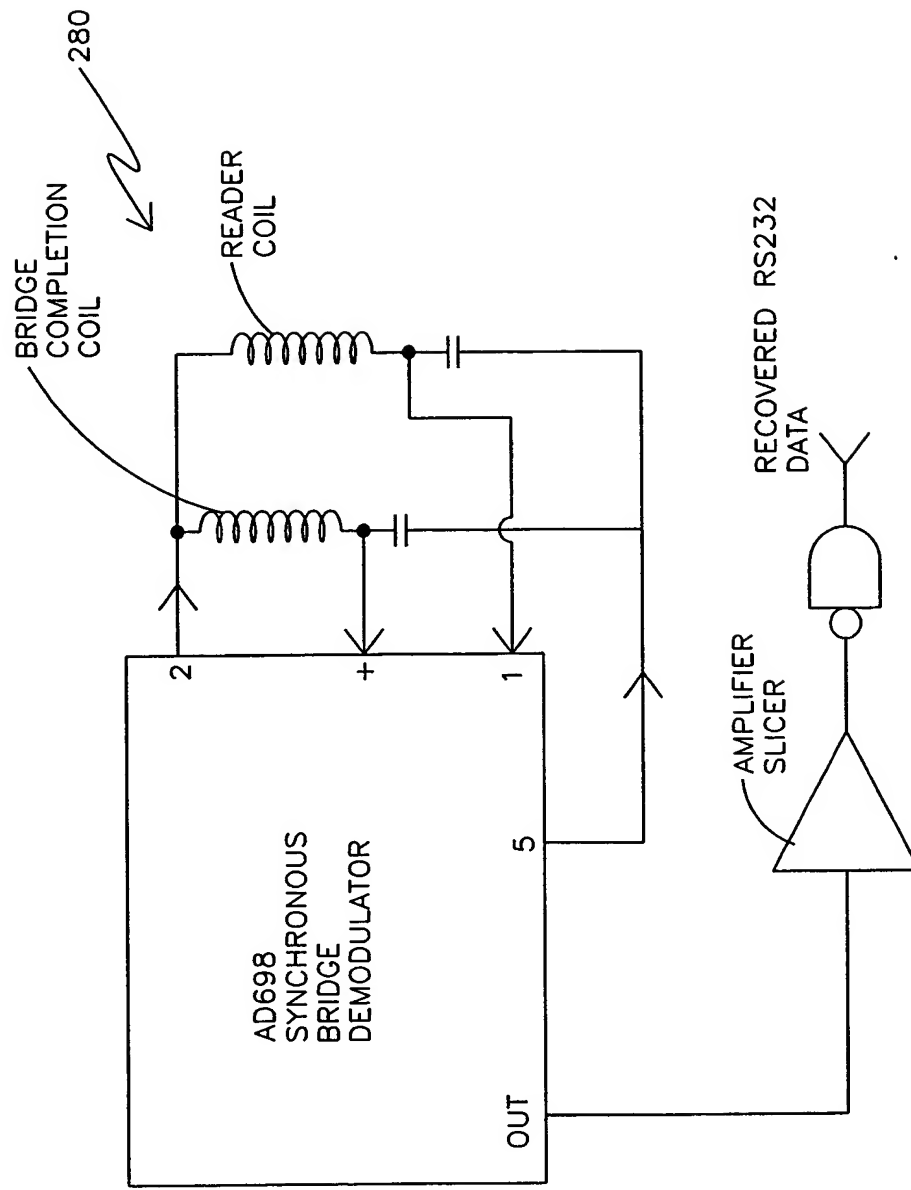


FIG. 12

115-005  
18-29

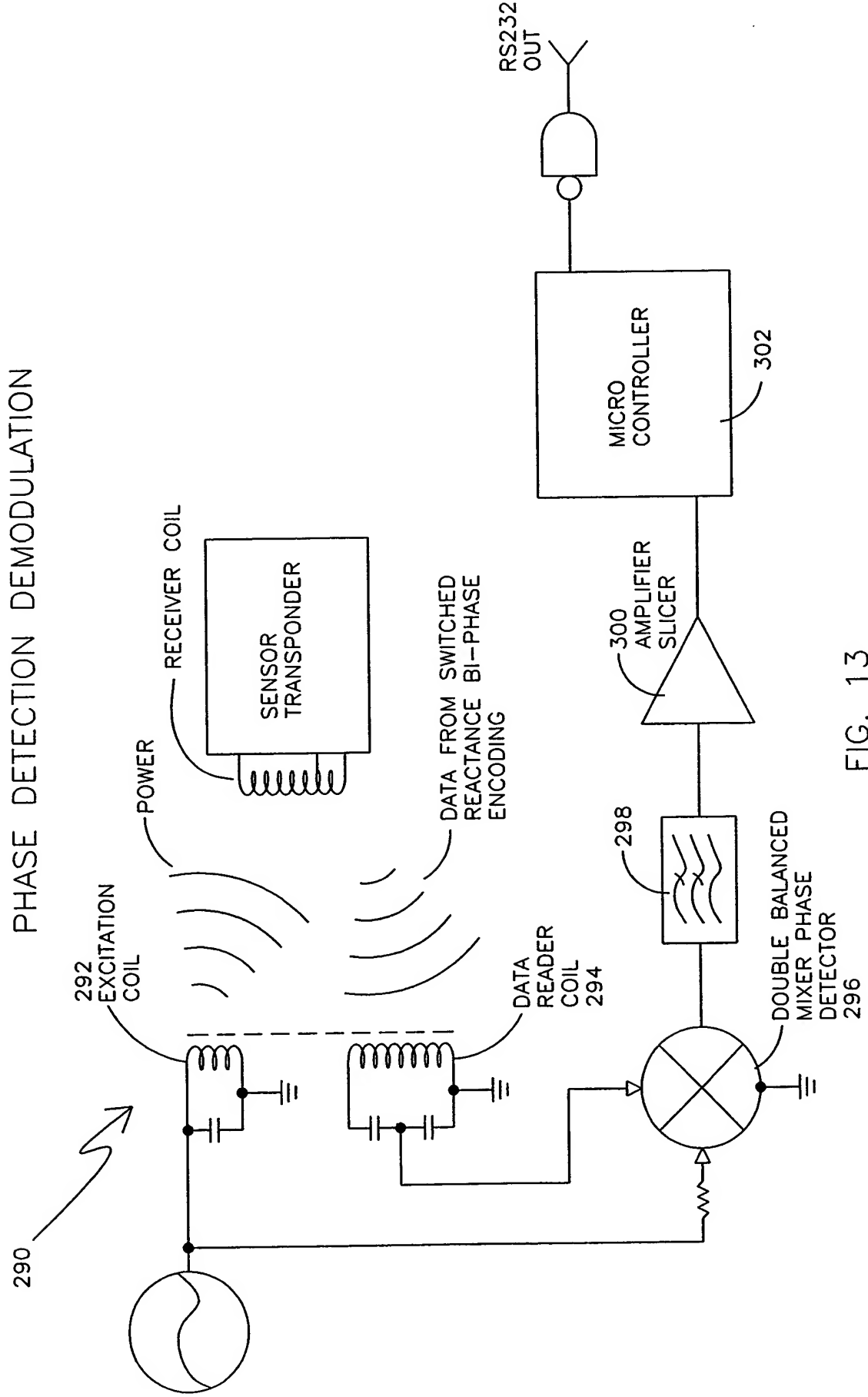


FIG. 13

115-005  
19-29

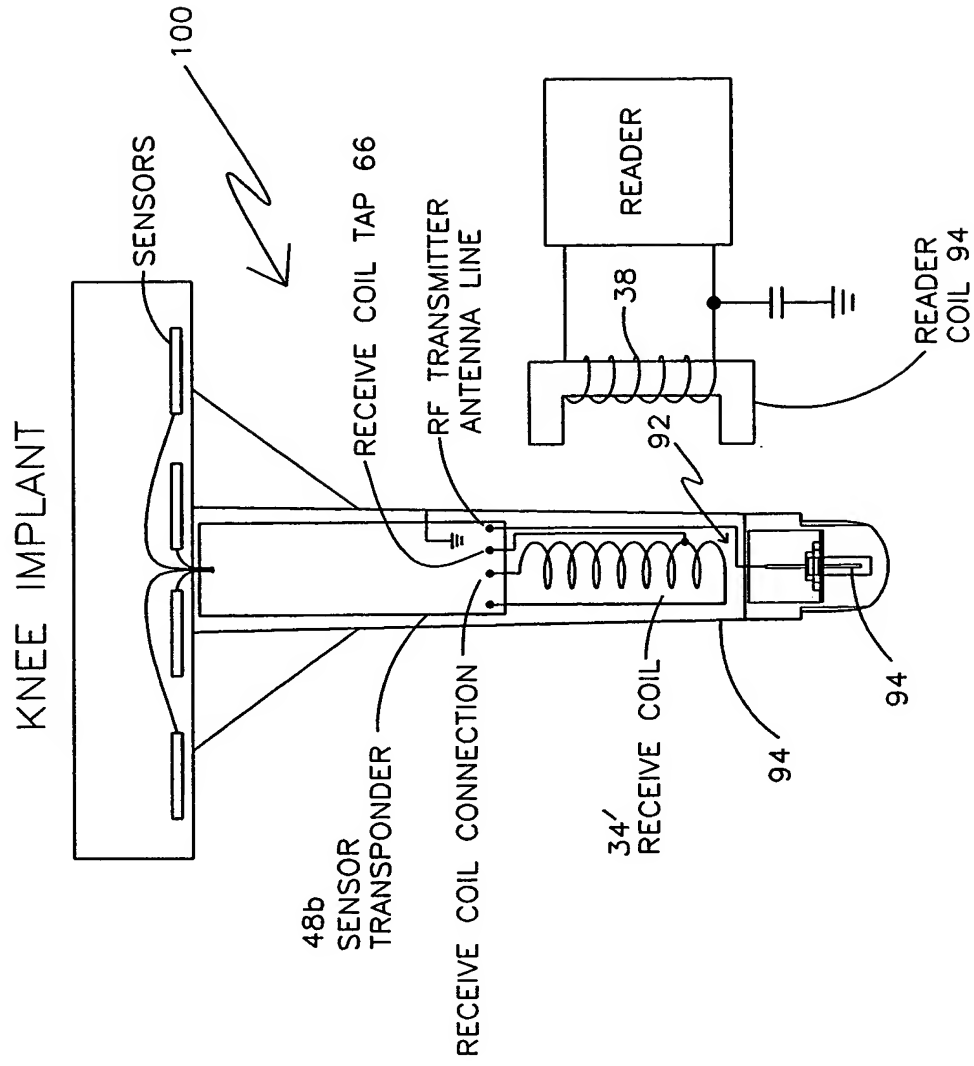


FIG. 14

115-005  
20-29

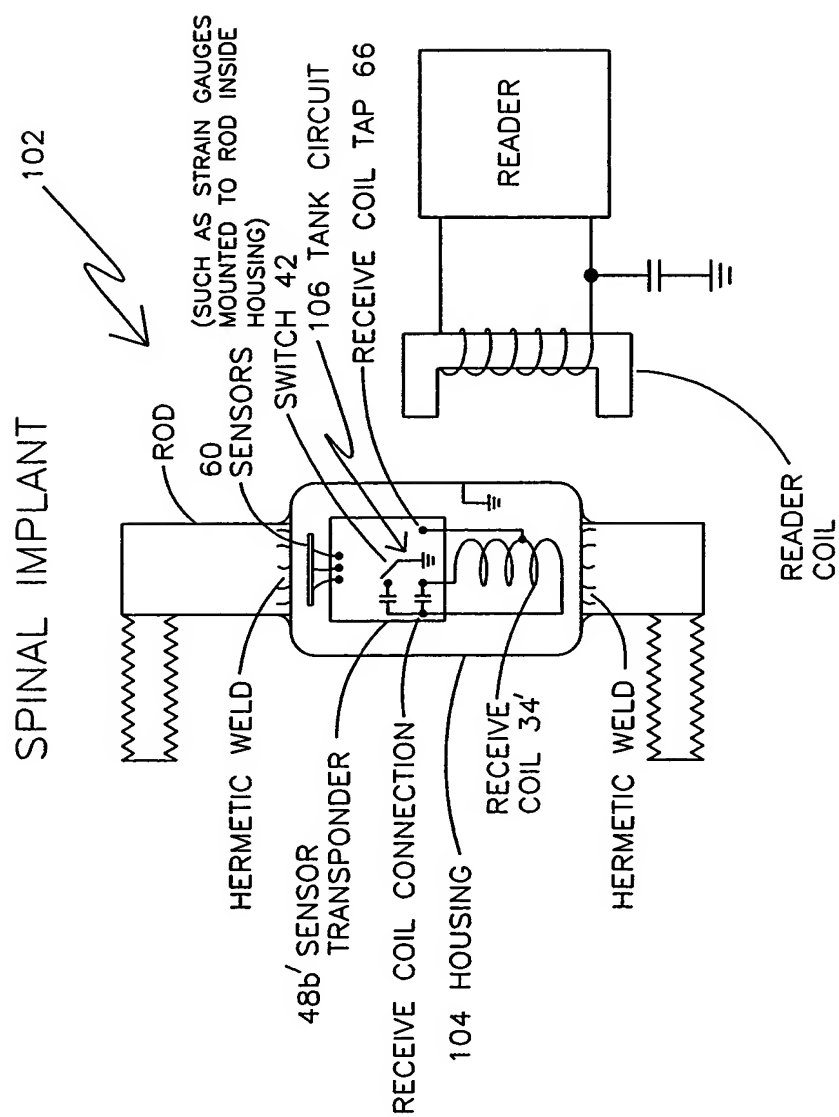


FIG. 15

115-005  
21-29

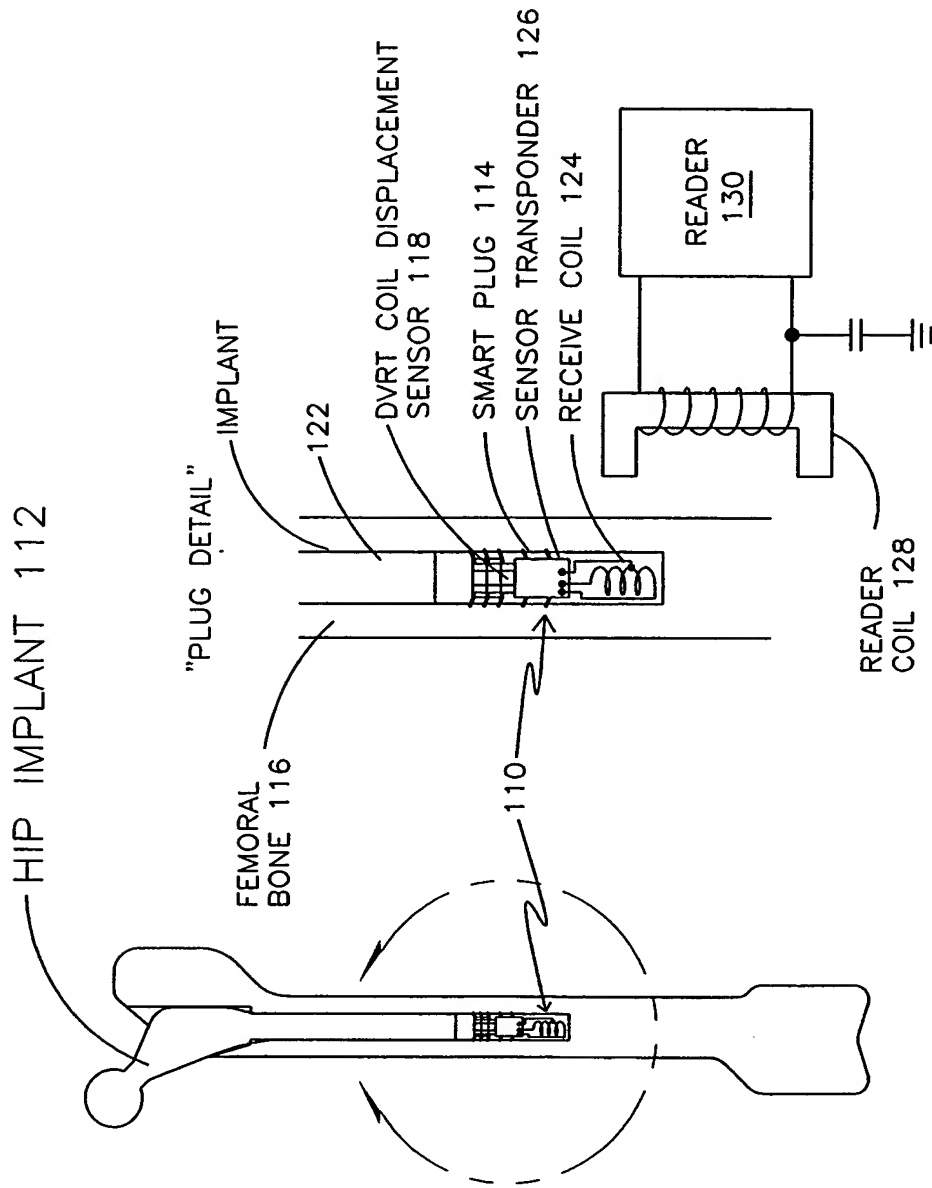
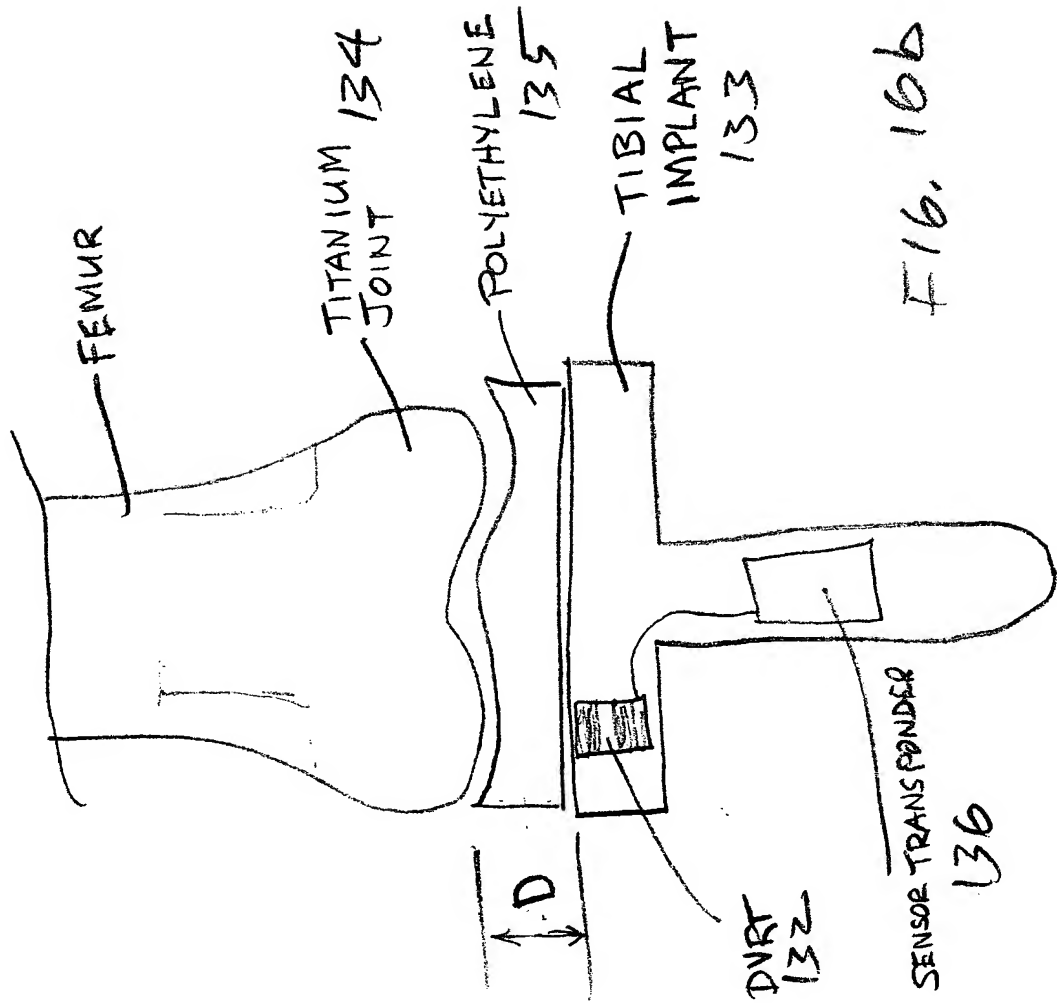


FIG. 16

115-005  
22-29



# REMOTELY POWERED AND INTERROGATED CORROSION MEASURING DVRT SYSTEM W/SPRING ELEMENT

115-005  
23-29

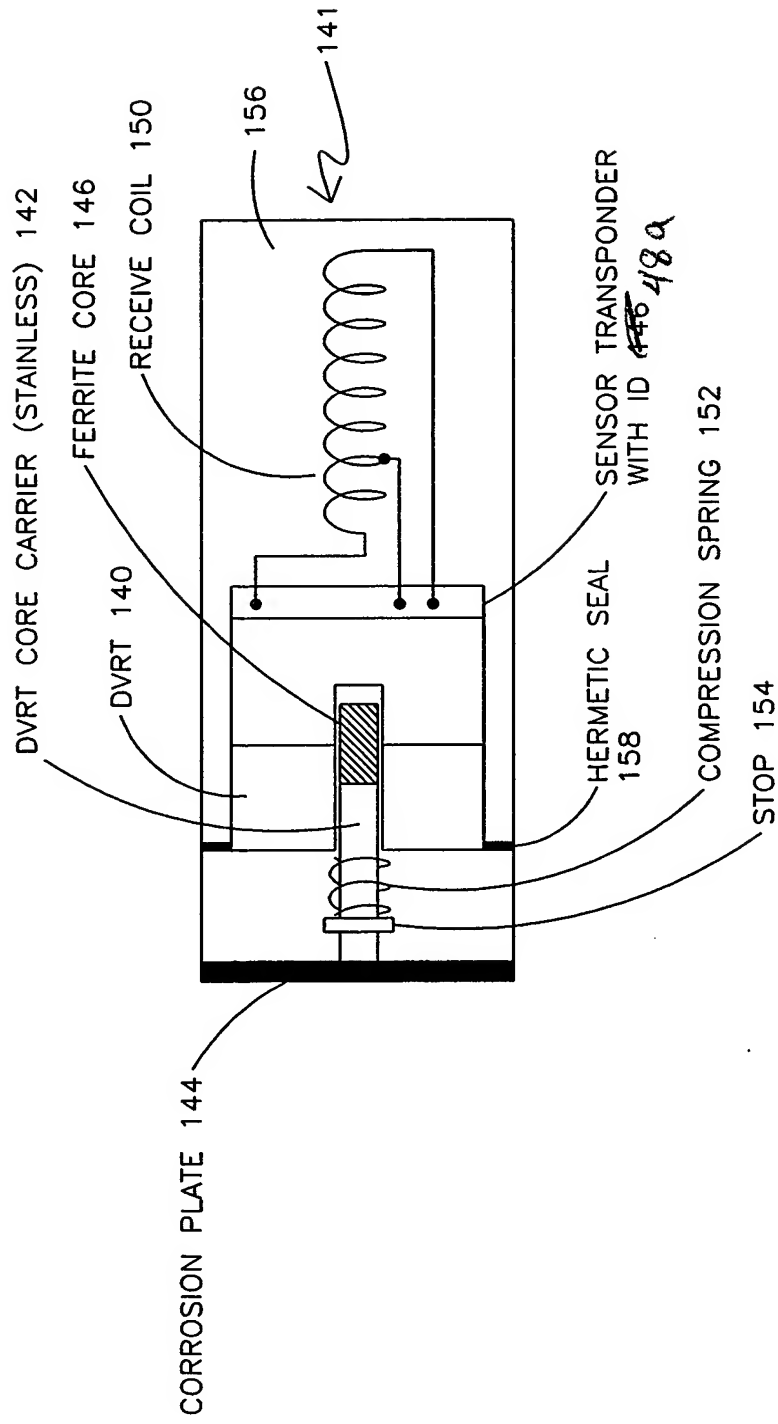


FIG. 17a

REMOTELY POWERED AND INTERROGATED CORROSION  
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

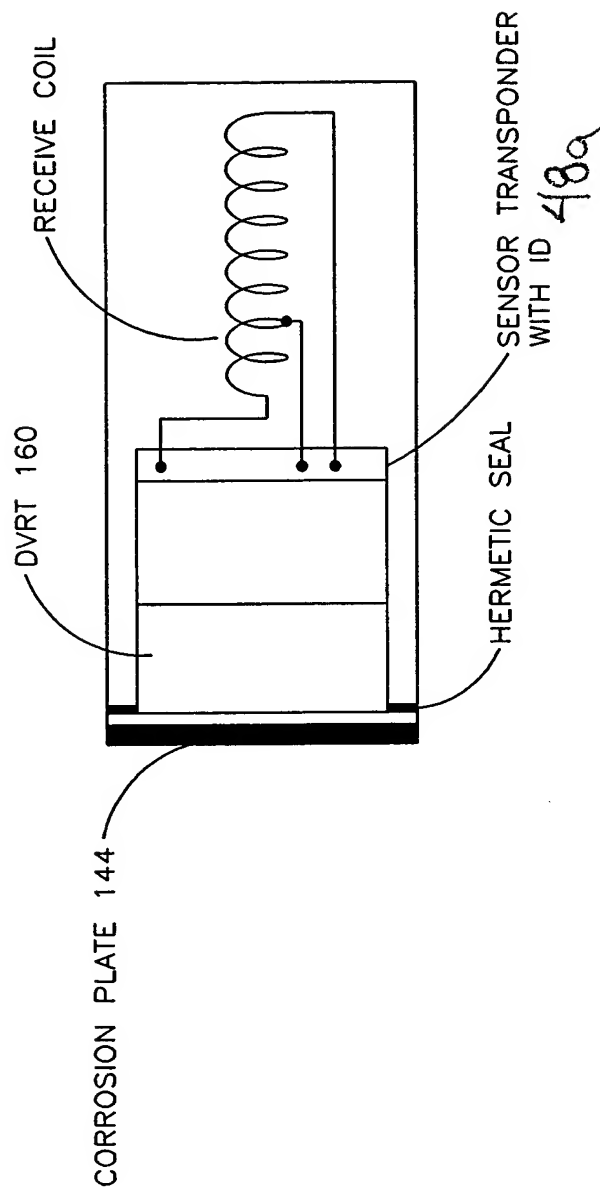


FIG. 17b



115-005  
25-29

REMOTELY POWERED AND INTERROGATED CORROSION  
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

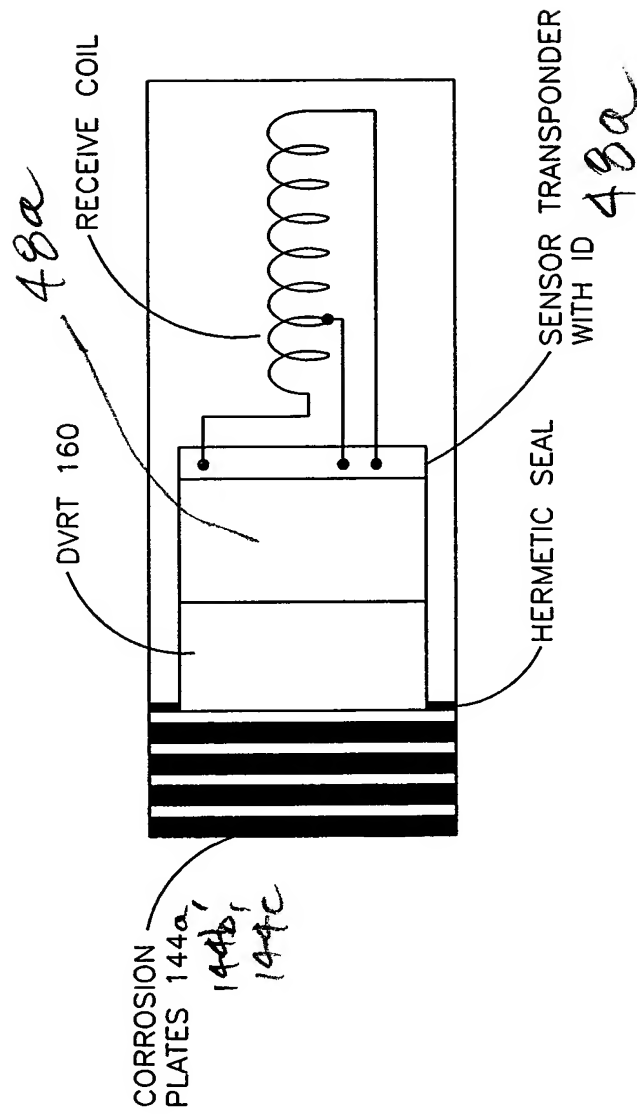


FIG. 17c

115-005  
26-29

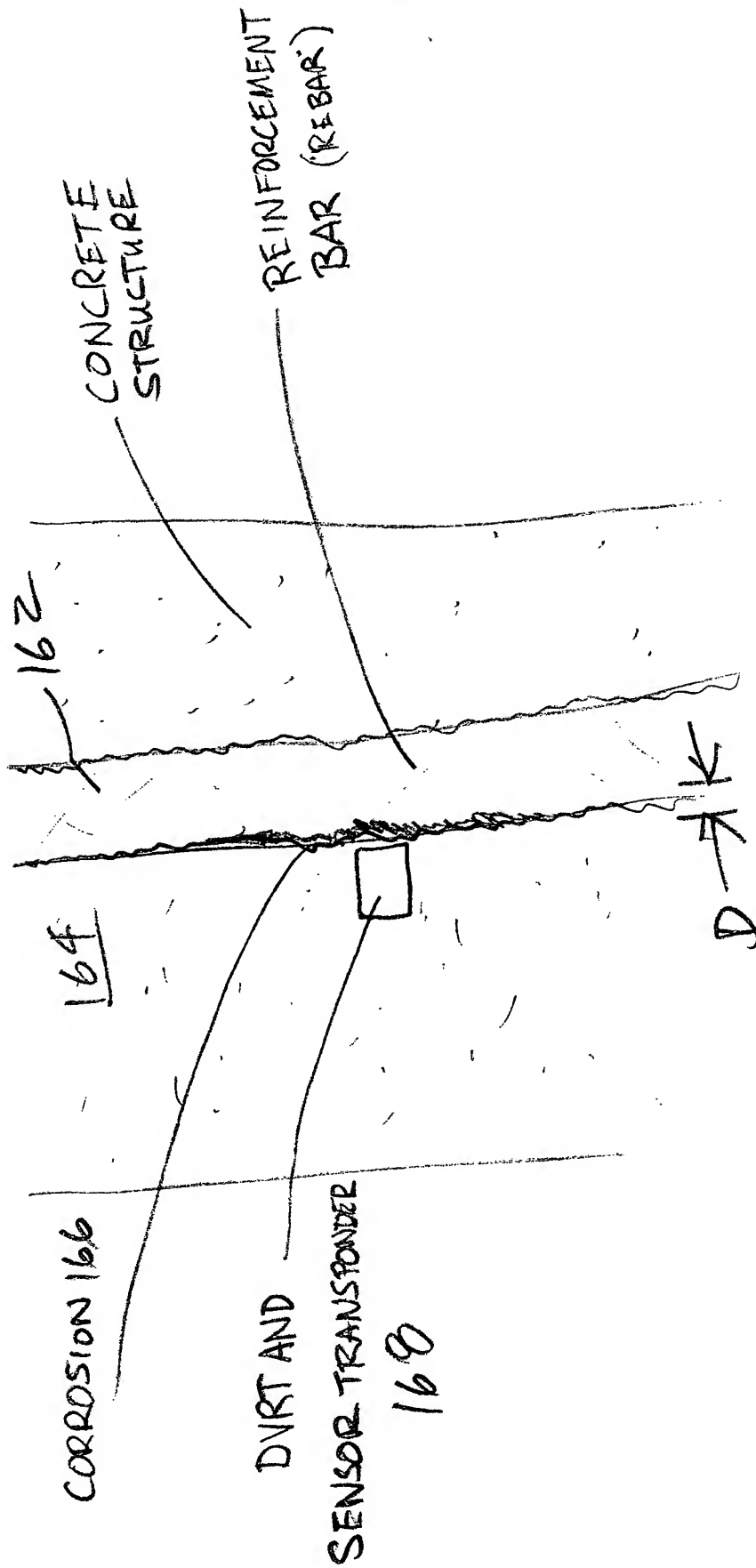
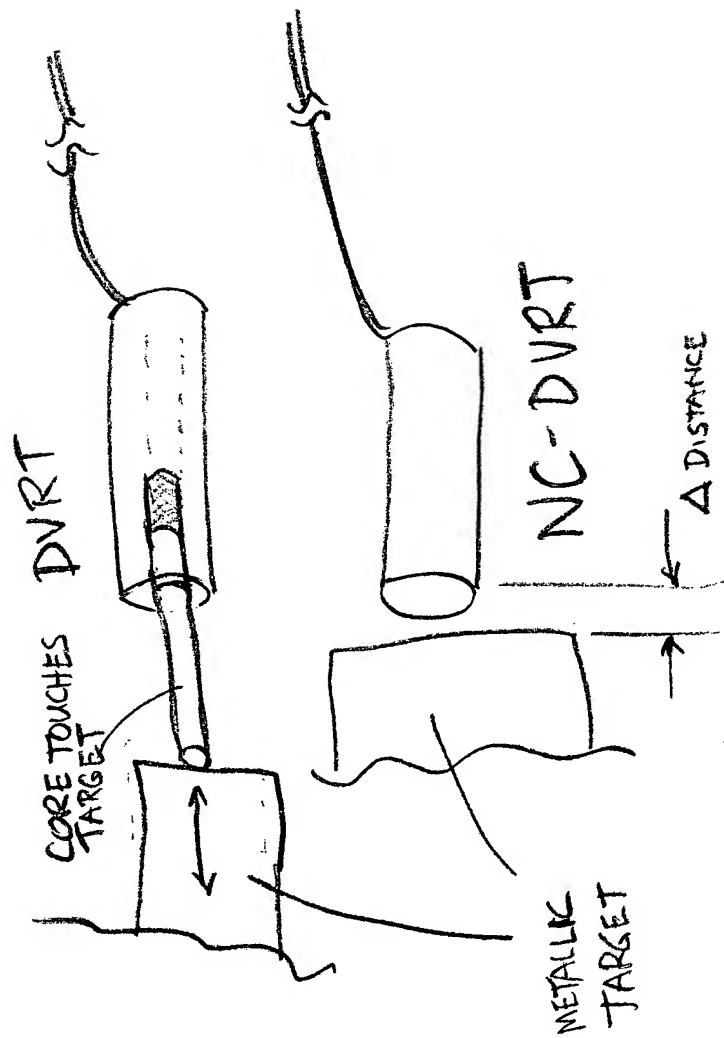


FIG. 17d

115-005

27-29



F16.17e

REMOTELY POWERED AND INTERROGATED  
DVRT FOR FORCE OR PRESSURE  
MEASUREMENT

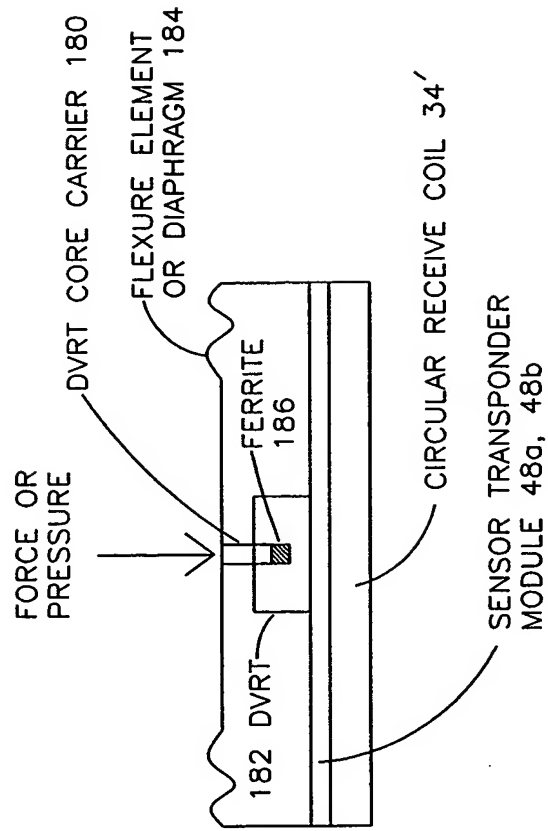


FIG. 18

115-005  
28-29

REMOTELY POWERED AND INTERROGATED DVRT  
FOR FORCE OR PRESSURE MEASUREMENT

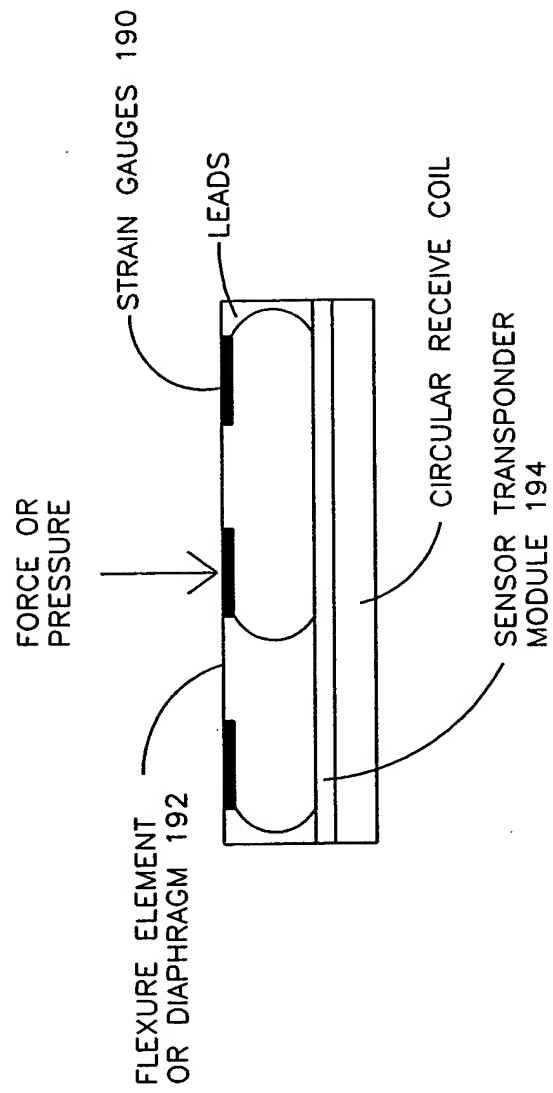


FIG. 19

115-005

29-29